

Name: _____ Date: _____

Show all of your work

1. $2\sqrt[3]{8} + 4\sqrt{9}$

$2 \cdot \sqrt[3]{8} + 4 \cdot \sqrt{9}$

2. $\frac{6^2 - 3 \cdot 4}{3^2 - 1}$

3. $2(-2) - 3(-2) - 6$

4. $\sqrt{40 + 3^2} + 7 + 12 + (15 - 130)$

5. $|6 + 3(-3)| + 5$

6. Evaluate using $a = -1, b = 3, c = -2$
 $a^2 - 4bc$

7. Evaluate using $a = -1, b = 3, c = -2$
 $c^2 - 2c + 1$

8. Evaluate using $a = -1, b = 3, c = -2$
 $\frac{a - c}{a - b}$

9. Evaluate using $a = -1$, $b = 3$, $c = -2$
 $(|a + c| - 2)^3$

10. Evaluate using $a = -1$, $b = 3$, $c = -2$
 $a^2 + 2ab + b^2$

11. Write an algebraic expression:
3 more than double a number

12. Write an algebraic expression:
5 less than the product of -2 and x

13. Write an algebraic expression:
The quotient of a number and 2 minus 3

14. Write an algebraic expression:
9 subtracted from a number cubed

15. Write an algebraic expression:
The sum of 5 times a number and 10.

BONUS: